KENWOOD

QUARTZ PLL DIRECT DRIVE AUTO LIFT UP TURNTABLE

Ⓐ P1
Ⓑ P2
Ⓒ P3
Motor driving voltage
4V/div

Ⓓ P6
Ⓔ P7
Ⓕ P10
Hall element output
400mV/div
200mV/div

Ⓖ (mV) 160 120 80 0 — 1.2 2.4 3.6 (sec)
Both sides of resistor R23 or R24 so that 120mV is obtained.

Between Ⓕ to Ⓗ
TA7234P
P10 ~ 9 hall elements differential output
Vp10-9 1 (V/div) — 1.2 2.4 3.6 (Sec)

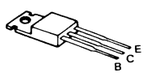
Ⓘ (V) 2.6V (331/3r.p.m) 2.4 1.6 0.8 0 — 30 60 90 (mS) — 50mS
Lamp output

Ⓙ (V) 5.4V 4 0 4 8 — 25mS (33rpm) (ms)
Reset signal

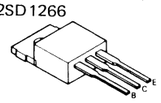
2SA999
2SC1685
2SC2320
2SC945

2SD882

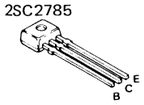
2SD330



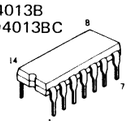
2SD1266



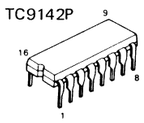
2SA1175
2SC2785



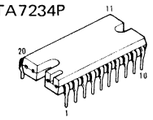
MN4013B
μPD4013BC



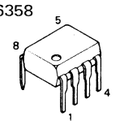
TC9142P



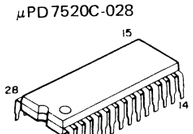
TA7234P



AN6562
LA6358



μPD7520C-028



Q1,5~8,13,100 : 2SC945(A)(Q,P) or 2SC2320(E,F) or 2SC1685(R,S)
Q2 : 2SD330(E,F)
Q3,4 : 2SA999(F,G) or 2SA1175(F,E,K)
Q9 : 2SD882(Q,P,E)
Q10 : 2SD1266(Q,P)
Q11,12 : 2SC2320(F,G) or 2SC2785(F,E,K)

IC1 : TC9142P
IC2 : TA7234P
IC3,4 : AN6562 or LA6358
IC5 : μPD7520C-028
IC6 : MN4013B or μPD4013BC

D1 : W02
D4 : IS2076A
D5 : WZ-182
D9 : STV-3H(0)

(X29-1440-00) (A/4)
(X29-1440-00) (B/4)
(X29-1440-00)(C/4)
(X29-1440-00)(D/4)

VR1 : END DETECT ADJ.
VR2 : THRESHOLD ADJ.

PR1 JW-1B JW-1A
END DETECT
Auto up signal
IC5(4)
FG AMP
IC3 (1/2)
IC3 (2/2)
FG out
IC4 (1/2)
IC4 (2/2)
IC4
IC3
33 1/3 → 20Hz
45 → 27Hz
7.4V
0V
DC8.7V
DC10.7V
IC2 MOTOR DRIVER
FG Pulse
VIN1
VIN2
PLAY 10.4V STOP 0V
BRAKE SW
Q8 Q9 Q5 Q6 Q7 D5
SOLENOID DRIVER
SOLENOID OFF 0V KICK 20.5V HOLD 18.0V
DC5.7V MOTOR QUARTZ LOCK

IC4 1/2 (1) Auto up signal
μ-Com IC5
CLOCK
276.48Hz
IC6 (1/2)
IC6 (2/2)
DIVIDER (1/2 x 1/2)
69.12KHz
START/STOP signal 23 Q5 base
Tone arm up/Down signal 21 Q7 base
Solenoid Kick signal 19 Q6 base
POWER ON DC 23.4V POWER OFF 0V
MOTOR PLAY ON L (0V) STOP OFF H (8.6V)
CHECK
HOLD
SOLENOID ON SOLENOID OFF
MOTOR QUARTZ LOCK H (8.6V) OTHERS L (0V)
L : 33rpm H : 45rpm
33 ind → DI01
Lock ind → DI00
Lock detector out → IC1
START/STOP SW
33/45 SW
MOTOR IS TURNED ON: DC 24.7V POWER OFF DC 30V

BODY GND
PICK-UP
LUG.
GND
Lch
Rch
LG (WHT)
L (BLU)
R (GRN)
RG (RED)

220-240V
120V
RED
WHT
YEL
AC21.4V
AC21.3VrmS
RIPPLE FILTER
45 rmp LED ON 0.72V OFF 0.36V

JW-3A JW-3B JW-2A JW-2B
ON H
33/45
START/STOP
DI01 DI02 DI00
33 45 LOCK
S1 ON ↔ OFF POWER SW.
S2 S3

FG input
Lock detector out
CPIN
CPout
H: LOCK
PLL CONTROLLER

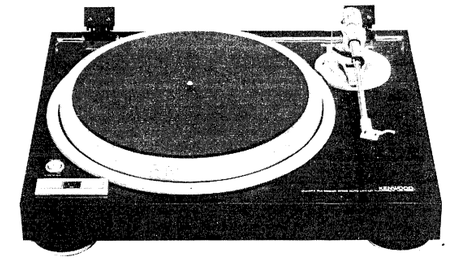
DI00,101 : B30-0473-05
DI02 : B30-0472-05
S1 : S40-2326-05
S2,3 : S40-1065-05

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesur
mètre à haute impédance. Les valeur
légèrement du fait des variations
appareils et aux instruments de mesur

QUARTZ PLL DIRECT DRIVE AUTO LIFT UP TURNTABLE

KD-7060



SPECIFICATIONS

Motor and turntable

Drive System	Direct-drive system
Motor	Quartz PLL coreless & slotless DC servo motor
Turntable Platter	33 cm (13") diameter Aluminum alloy, die-cast
Speeds	2 speeds, 33-1/3 and 45 rpm
Wow & Flutter	Less than 0.02% (WRMS)
Rumble	DIN weighted better than −80 dB DIN unweighted better than −55 dB

Tonearm

Type	Static-balance type, straight tubular arm, EIA plug in connector
Effective Arm Length	245 mm (9-5/8")
Overhang	15 mm (9/16")
Tracking Error	+1.8° to −1.0°
Tracking Force Range	0 to 3 grams (0.1 g Step)
Usable Cartridge Weight	4.5 to 12 grams (with equipped head-shell)

Miscellaneous

Power Requirements	AC 120 V/220 V (Switchable), 50 Hz
Power Consumption	22 watts (European Model), 20 watts (Hong-Kong Model)
Dimensions	W 490 mm (19-5/16") H 162 mm (6-3/8") D 410 mm (16-5/32")
Weight	12.0 kg (26.4 lb)
Supplied Accessories	45 rpm adaptor, Low capacitance phono cables, Hexagonal bar wrench

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui doncerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

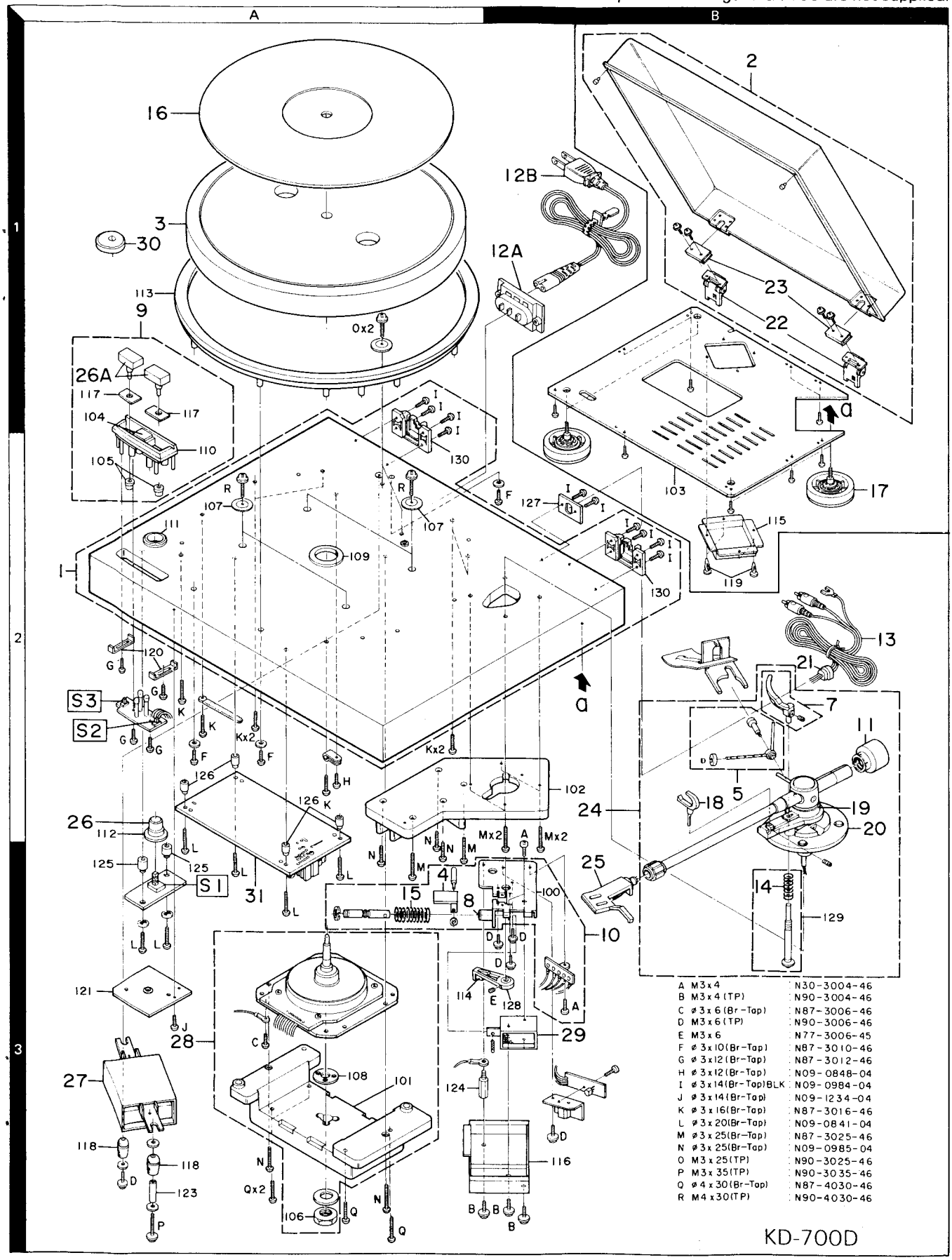
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

EXPLODED VIEW

Exploded No. larger than 100 are not supplied.



A	M3x4	N30-3004-46
B	M3x4 (TP)	N90-3004-46
C	ø3x6 (Br-Tap)	N87-3006-46
D	M3x6 (TP)	N90-3006-46
E	M3x6	N77-3006-45
F	ø3x10 (Br-Tap)	N87-3010-46
G	ø3x12 (Br-Tap)	N87-3012-46
H	ø3x12 (Br-Tap)	N09-0848-04
I	ø3x14 (Br-Tap) BLK	N09-0984-04
J	ø3x14 (Br-Tap)	N09-1234-04
K	ø3x16 (Br-Tap)	N87-3016-46
L	ø3x20 (Br-Tap)	N09-0841-04
M	ø3x25 (Br-Tap)	N87-3025-46
N	ø3x25 (Br-Tap)	N09-0985-04
O	M3x25 (TP)	N90-3025-46
P	M3x35 (TP)	N90-3035-46
Q	ø4x30 (Br-Tap)	N87-4030-46
R	M4x30 (TP)	N90-4030-46

Refer to Parts List on 8.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			KD-700D			
1	2A	*	A03-0257-12	WOODEN CABINET ASSY	EM	
1	2A	*	A03-0259-12	WOODEN CABINET ASSY	T	
2	1B		A53-0057-02	DUST COVER ASSY		
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	E	
-		*	B50-4725-00	INSTRUCTION MANUAL	E	
-		*	B50-4757-00	INSTRUCTION MANUAL	EM	
-		*	B50-4758-00	INSTRUCTION MANUAL	T	
-			B58-0513-04	CAUTION CARD	EM	
-			B58-0518-04	CAUTION CARD		
-			B59-0020-04	CAUTION CARD	ET	
-			B59-0301-04	CAUTION CARD	M	
3	1A		D02-0039-15	TURNTABLE PLATTER		
4	3A		D10-0938-04	LEVER		
5	2B		D19-0215-08	ANTI-SKATING DEVICE ASSY		
7	2B		D39-0085-08	TONEARM SUPPORT ASSY		
8	3A		D39-0162-04	DAMPER SILINDER ASSY		
9	1A	*	D40-0274-03	OPERATIONAL PART ASSY		
10	3B		D40-0511-23	AUTO-UP MECHANISM ASSY		
11	2B		D91-0129-08	MAIN WEIGHT		
⚠ 12A	1A		E03-0053-15	AC INLET	E	
⚠ 12A	1A		E03-0102-15	AC INLET	MT	
⚠ 12B	1B		E30-1305-15	AC POWER CORD (INLET)	M	
⚠ 12B	1B		E30-1328-15	AC POWER CORD (INLET)	T	
⚠ 12B	1B		E30-1329-05	AC POWER CORD (INLET)	E	
13	2B	*	E30-0800-05	AUDIO CORD		
14	3B		G01-1057-08	TORSION COIL SPRING		
15	1B		G01-1078-04	COMPRESSION SPRING		
16	1A		G16-0355-13	TURNTABLE SHEET		
-		*	H01-4762-04	CARTON BOX	EM	
-		*	H01-4789-04	CARTON BOX	T	
-		*	H10-1654-02	POLYSTYRENE FIXTURE(BOTTOM.F)		
-		*	H10-1655-02	POLYSTYRENE FIXTURE(BOTTOM.R)		
-		*	H10-1656-02	POLYSTYRENE FIXTURE(TOP.LEFT)		
-		*	H10-1657-02	POLYSTYRENE FIXTURE(TOP.RIGHT)		
-			H10-2289-03	POLYSTYRENE FIXTURE(ACCESSORY)		
-			H12-0127-03	PROTECTION BOARD		
-			H20-0469-04	PROTECTION COVER		
-			H25-0029-04	PROTECTION BAG (60X110)		
-			H25-0078-04	PROTECTION BAG (235X315)		
-			H25-0085-04	PROTECTION BAG		
-			H25-0159-04	PROTECTION BAG	M	
17	2B	*	J02-0139-03	INSULATOR ASSY		
18	2B		J19-0698-08	TONEARM REST		
19	2B		J19-0739-08	LIFTER BASE ASSY		
20	2B		J19-2097-08	TONEARM BASE ASSY		
⚠ 21	2B		J42-0078-05	AUDIO CORD BUSHING		
22	1B		J50-0314-25	HINGE		
23	1B		J50-0322-04	HINGE PLATE		
24	2B	*	J91-0193-05	TONEARM ASSY		
25	3B	*	J92-0085-05	SHELL ASSY		

E: Scandinavia & Europe H:Audio Club K: USA P: Canada ⚠ indicates safety critical components.
S: South Africa T: England U: PX(Far East, Hawaii)
UE: AAFES(Europe) X: Australia M: Other Areas

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26	2A	*	K29-1218-04	KNOB (POWER SW.)		
26A	1A	*	K29-0911-14	KNOB (33/45,START/STOP)		
⚠ 27	3A	*	L01-3222-05	POWER TRANSFORMER	M	
⚠ 27	3A		L01-6514-05	POWER TRANSFORMER	ET	
-			N09-0551-05	TAPPING SCREW (3X14,+)		
-			N09-0841-04	TAPPING SCREW (3X20,+)		
-			N09-0850-04	CARTRG MOUNT SCREW (M2.6X10,-)		
-			N09-0851-04	CARTRG MOUNT SCREW (M2.6X15,-)		
-			N09-0852-04	CARTRG MOUNT SCREW (M2.6X20,-)		
-			N09-0984-04	TAPPING SCREW		
-			N09-0985-04	TAPPING SCREW		
-			N09-1234-04	TAPPING SCREW (3X14,+)		
-			N09-1238-05	TAPTITE SCREW (3X12,+)		
28	1A	*	T43-0034-05	DIRECT DRIVE MOTOR		
29	3B		T94-0067-05	MAGNETIC PLUNGER		
30	1A		W01-0329-04	EP ADAPTER		
-			W01-0302-08	HEXAGON WRENCH KEY		
31	3A	*	X29-1440-00	CONTROL CIRCUIT UNIT		

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